

Cypress™

Cypress Tech Talk

June 2, 2020



MITRE

The Office of the National Coordinator for
Health Information Technology



CMS
CENTERS FOR MEDICARE & MEDICAID SERVICES

Agenda

- Software Updates
 - Cypress v5.4.0 Cures Patch Release
 - Cypress v5.4.1
 - Cypress v6 Releases
 - Cypress 6 and Cures Features Demo
- Recent Issue
 - Cypress Known Issues Dashboard
- Cypress Versions
- Open Discussion
- Contact Information

*See the Glossary at the back for definitions of terms

Software Updates

Cypress v5.4.0 Cures Patch Release

- **A Cypress v5.4.0 patch release was on May 14, 2020**
- **Cures Features**
 - Live demo on today's Cypress Tech Talk
 - Updates for the 21st Century Cures Interoperability Rule
 - CMS Implementation Guide (IG) used to validate QRDA structure, including v1.2 QRDA-I updates from 3/13/2020
 - QRDA-I C3 validation only for EH measures; QRDA-III C3 validation only for EP/EC
- **De-duplication Features**
 - De-duplication updated to add more realism
 - Addresses are randomized, but the same address is used for duplicate patients
 - Birthdate changes in duplicate patients are rare and limited to changes in the day of the month
- **CVU+ Tests**
 - Provide HL7-only tests for full coverage of previous CVU features

Cypress v5.4.1 2015 Edition Options

- **As packaged, Cypress 5.4.0 is Cure Edition only**
 - Currently 5.3.0 is currently required to test for original 2015 Edition
- **Cypress v5.4.1 will give both options**
 - 2015 Edition, and
 - 2015 Edition Cures Update
- **Cypress v5.4.1 planned**
 - Anticipated June 4th, 2020

Add Product

Name

Version

Description

Product Types

Certification Product

CVU+ Product

Certification Edition

2015 Edition

2015 Edition Cures Update

Select the certification edition.

Certification Types

C1 Test

C2 Test

C3 Test

C4 Test

Select the certification type Cypress should use to certify this product

Records Options

Randomize Records

Duplicate Records

Recommended for most robust testing.

Bundle Options

Alpha bundle for the 2020 Reporting/Performance period 2020.0.0

Select the measure versions Cypress should use to certify this product.

Shift Records

Selecting Shift Records will move patient data forward into the appropriate reporting period. Otherwise patient data will remain in a previously completed calendar year.

Measures Options

Eligible Hospital eCQMs

Eligible Professional eCQMs

All eCQMs

Custom...

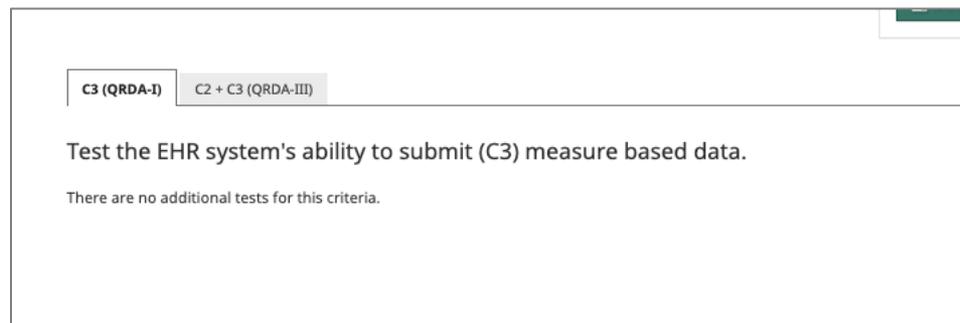
Indicate the clinical quality measures Cypress should use to certify this product. Testing will be performed on a measure-by-measure basis. Click 'Custom' to specify individual measures.

Add Product
Cancel

Software Updates

Cures Features

- **ONC Interoperability Rule released on March 9, 2020 to support the 21st Century Cures Act**
- **Cypress updates for C3 certification and schematron validation**
 - CMS IG is used for validation and shows errors for CMS IG validation issues
 - Uses latest CMS schematron, updated on March 13, 2020
 - QRDA-I C3 validation only required for EH measures
 - QRDA-III C3 validation only required for EP/EC measures
 - Example, EP/EC measure with C3 certification will have no QRDA-I tests:



Software Updates

De-duplication Features

■ Address Changes

- Previously, Cypress created all patients with the same address
- Cypress update creates patients with different addresses, where addresses will not be changed when duplicating patients

■ Birthdate Changes

- Previously, birthdate was often changed in duplicate patients to a random date in a range from the original patient birthdate
- Updates make birthdate changes less common
- Birthdate changes only update the *day* while keeping the month and year the same

```

▼<recordTarget>
  ▼<patientRole>
    <id extension="5e9bfd19dfe4bd03bdf0fecf" root="1.3.6.1.4.1.115"/>
    ▼<addr use="HP">
      <streetAddressLine>202 Burlington Rd.</streetAddressLine>
      <city>Bedford</city>
      <state>MA</state>
      <postalCode>01730</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:+1-781-271-3000"/>
  </patient>

```



```

▼<recordTarget>
  ▼<patientRole>
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    ▼<addr use="HP">
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      <city>Massapequa</city>
      <state>NY</state>
      <postalCode>11758</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:+1-202-555-0165"/>

```

Software Updates

CVU+ HL7 Tests

- **HL7-only tests provided as CVU+ functionality**
 - Previously, the Cypress Validation Utility provided simple validation with the HL7 schematron
 - Users have expressed continued interest in HL7 validation
 - HL7 Cat I and HL7 Cat III tests are both provided as options in CVU+

Test Name	Quick Upload	Last Updated
MIPS_GROUP Test	▶ start upload	🕒 6 minutes ago
MIPS_INDIV Test	▶ start upload	🕒 6 minutes ago
MIPS_VIRTUALGROUP Test	▶ start upload	🕒 6 minutes ago
CPCPLUS Test	▶ start upload	🕒 6 minutes ago
HL7 Cat I Test	▶ retry upload	🕒 4 minutes ago
HL7 Cat III Test	▶ start upload	🕒 6 minutes ago

Software Updates

Cypress v6 Releases

- **Cypress v6 Alpha release May 21, 2020**
 - HL7 QRDA category 1 R5.2
 - 2021 CMS QRDA Implementation Guide for Hospital Quality Reporting
 - Initial support for 2021 reporting/performance period eCQMs
 - 9 EH/CAH eCQMs
 - 47 EP/EC eCQMs
 - 1 Hybrid eCQM (CMS529)
- **Final Cypress v6 release anticipated late July 2020**

Cypress 6 and Cures Features Demo

- **Demo**

Recent Issue

Cypress Known Issues Dashboard

- <https://oncprojecttracking.healthit.gov/support/secure/Dashboard.jspa?selectPageId=18000>
- The dashboard collects all labeled known issues in one place, sorted by Cypress version
- Easily navigate to the dashboard from the Cypress summary page

Cypress Known Issues
✕ ↗ ⋮

Cypress Known Issues

Below are tables that list known issues for the most recent Cypress Versions

Release Notes for Cypress Versions can be found [here](#)

Filter Results: Cypress Known Bugs 5.2.0
✕ ↗ ⋮

Summary	2020 Performance Period EP/EC eCQMs	2020 Reporting Period EH eCQMs	Solution
CMS 145 Denominator Issue			⋮
QRDA III giving C3 Execution: An internal error occurred			
QRDA-I Validation Error			

1-3 of 3

Cypress Versions

Version	Dates	Measures Supported
V5.3.0	March 12, 2020	Latest version supporting eCQMs for the 2020 Reporting/Performance Period and CQL. Contains feature improvements and fixes for bugs found in Cypress v5.2.0.
V5.4.0	May 14, 2020	Support for certification changes due to regulation updates in the Cures Interoperability Rule. Adds more de-duplication realism.
V6 Alpha	May 21, 2020	Initial support for QRDA category 1 R5.2 and 2021 reporting/performance period eCQMs.
<i>V5.4.1</i>	<i>Anticipated June 4, 2020</i>	Support for 2015 Certification Edition OR 2015 Certification Cures Updated Edition

Bundle Version	Dates	Features
2019.1.1	December 19, 2019	Cypress v5 only CQL-based measures released in 2019 for the 2020 reporting year. Removed retired measures as announced on November 19, 2019.

*Cypress v4 and the 2018 bundle are moving into retirement due to the end of the 2019 reporting period.

Reporting end dates: April 30 for EP (source: [QPP](#)). May 1st for EH (source: [QualityNet](#)).

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, June 16, 2020 at 1pm ET
- To join online, visit: <https://global.gotomeeting.com/join/529898157>
- To join via phone, dial: 1-646-749-3122
- Meeting Number: 529 898 157
- Meeting link, as well as a calendar event file, available at:
 - <https://www.healthit.gov/cypress/techtalks.html>

Notes

- **Completed Webinars will be posted on the Cypress website on the Tech Talks tab**
 - <https://www.healthit.gov/cypress/techtalks.html>
- **Send questions and feedback to the Cypress Talk List at**
 - project-cypress-talk@googlegroups.com
- **Report bugs and issues to the Cypress JIRA at**
 - <https://oncprojecttracking.healthit.gov/support/browse/CYPRESS>

Glossary

- **CQL – Clinical Quality Language**
- **CVU – Cypress Validation Utility**
- **CVU+ – Cypress Validation Utility Plus Calculation Check**
- **EC – Eligible Clinician**
- **eCQM – Electronic Clinical Quality Measure**
- **EH – Eligible Hospital**
- **EP – Eligible Professional**
- **HL7 – Health Level Seven International**
- **IG – Implementation Guide**
- **QPP – Quality Payment Program**
- **QRDA – Quality Reporting Document Architecture**